

7th Grade Dance

The Task:

You are going to the 7th grade dance and you want to know how much money you are going to need to borrow from your parents. You have figured out that the outfit you want to wear is going to cost \$56.55, but it is currently on sale for 30% off at the Mall and the sales tax is 6% in Maryland. You will also need to pay for a ticket to the dance. If you buy the ticket in advance it will cost \$10.00, but if you buy the ticket at the door of the dance it will cost \$15.00. The last thing you will need money for is dinner. You are figuring that you will need \$18.00 for the meal at dinner and then you will need to add 6% sales tax and a 20% tip to your meal price.

1. Determine how much money you will need in order to attend the 7th grade dance.
2. If your parents lend you \$75.00, is that enough money to cover your costs? Why or why not?
3. What is the percent of change in the price of dance tickets from buying them in advance to buying them at the door?
4. Your parents have decided you will have to pay them the \$75.00 back with an additional interest rate of 5%. How much money will you owe your parents, including interest?

Skills to focus on:

- ☐ Make sense of problems and persevere in solving them.
- ☐ Reason abstractly and quantitatively.
- ☐ Construct viable arguments and critique the reasoning of others.
- ☐ Attend to precision.
- ☐ Look for and make use of structure.

7.RP.A.3. Use the proportional relationships to solve multistep ratio and percent problems. *Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.*

Gallery Walk questions...

How are the strategies the groups used to solve similar?

How are the strategies the groups used to solve unique?

Name: _____ Date: _____ Period: _____

Group Members: _____

1) What is this task about?

2) What is this task asking you to do?

3) How do you think you are going to figure out/solve this situation?

4) How do you know your solution reasonable?